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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/666,283	09/21/2000	Sung Bae Jun	CIT/ K-130	8473

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EXAMINER
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BUI, KIEU OANH T

ART UNIT	PAPER NUMBER
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2611

DATE MAILED: 08/11/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

**Office Action Summary**

Application No.

09/666,283

Applicant(s)

JUN ET AL.

Examiner

KIEU-OANH T. BUI

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 16 June 2005.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 12 and 14-22 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 12 and 14-22 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)  | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                   | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)             |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____  |

## **DETAILED ACTION**

### ***Remarks to After Final Amendments***

1. Applicant's request for reconsideration of the finality of the rejection of the last Office action is persuasive and, therefore, the finality of that action is withdrawn.
2. Claims 1-11, 13, and 23-33 were canceled. Pending claims are claims 12, and 14-22.

### ***Response to Arguments***

3. Applicant's arguments with respect to claims 12, and 14-22 have been considered but are moot in view of the new ground(s) of rejection.

### ***Claim Rejections - 35 USC § 112***

4. The following is a quotation of the second paragraph of 35 U.S.C. 112:

*The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.*

5. Claim 22 recites the limitation "to the more than one selected node" in claim 12 (refer to claim 12). There is insufficient antecedent basis for this limitation in the claim.

***Claim Rejections - 35 USC 102***

6. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

*A person shall be entitled to a patent unless --  
(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.*

7. Claims 12, 14, and 21 are rejected under 35 U.S.C. 102(e) as being anticipated by Ahmad et al (U.S. Patent No. 6,263,507 or “Ahmad” hereinafter).

Regarding claim 12, Ahmad discloses “a method of browsing a video using semantic relations information between segments of a multimedia stream characterized by a video browsing interface including a video display view and a key frame or a key region view, the method comprising: displaying the semantic relations information between segments by the video browsing interface further including key frames or key regions or text for displaying the semantic relations information between the segments; and performing a video browsing by using key frames or key regions or text displaying the semantic relations information between segments, wherein the semantic relations information between segments is an information on cause/effect or abstract/detail relationship”, i.e., system as shown in Fig. 1 of Ahmad with a browser as shown in figure 2B for browsing a video using semantic relations information between segments, since segments are related to each other with additional related information, and the browsing including a video display view and a key frame or a key region viewing as at item 213 of Figure 2B, and the key frames are used for displaying the semantic relations

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information between segments wherein the semantic relations information between segments is an information on abstract/detail relationship (refer to col. 2/line 60 to col. 3/line 59 for details of a subject matter, even between segments of different types, audio, video, and/or text data; and col. 16/line 55 to col. 17/line 57 & col. 18/lines 22-44 for keyframes and keyframes are used for displaying the semantic relations between related segments).

(Claim 13 was cancelled).

As for claim 14, in further view of claim 12, Ahmad discloses “wherein a user can select a case as to whether to shift to a frame corresponding to the selection region or to a segment represented by the selected region, or to a cause segment of the corresponding segment or to an effect segment or to an abstract segment or to a result segment, if the user selects a predetermined display region of the key frame or the key region view”, i.e., the graphical user interface as shown in figure 2B allows the user to control the keyframes either to skip or shift, or to stop, or to select a selected region or to any segment to a category of interest (refer to col. 15/line 43 to col. 16/line 3).

As for claim 21, Ahmad shows “wherein the region displaying the semantic relation information displays the region displaying the semantic relation information between segments centering around a segment currently being displayed” (Fig. 2B as the user selects an interested subject matter for displaying, the keyframe viewer shows the semantic relations information between segments).

***Claim Rejections - 35 USC § 103***

8. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

*(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.*

9. Claims 15-20 and 22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ahmad et al. (US Patent 6,263,507 B1) in view of Peters et al (US Patent 6,374,336 B1).

As for claims 15 and 17, in further view of claim 12, Ahmad does not further disclose “wherein each segment is expressed by a node, and the relationship between the segments is expressed by a link in a region displaying the semantic relations information between segments” and “wherein the corresponding node and the link are displayed in a graphic structure in the region displaying the semantic relations information between segments”; however, this is well-known in the art for graphical presentation, people often use a flowchart with nodes and links for representing and displaying the relationship and the graphic structure between two or more objects in the flowchart for the viewer easy to view the methods or concepts. In fact, Peters shows in figures 3-8 and 24 with flowcharts for steps of updating segment tables and creating segment table with nodes and links as mentioned. Therefore, it would have been obvious to one of ordinary skill in the art to further modify Ahmad’s system and method with graphical representation of nodes and links as shown in Peters’ flowcharts for further demonstrating the semantic relations information between segments for viewing purposes.

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As for claim 16, in further view of claim 15, Ahmad and Peters teaches “wherein each node is expressed by using the key frame, the key region or a text in the region displaying the semantic relations information between segments” (Fig. 2B of Ahmad for showing key frame, with node is taught by Peters).

As for claim 18, in further view of claim 15, Peters shows “wherein the corresponding node and the link are displayed in a tree structure in the region displaying the information on semantic relations between segments” (Figs. 23 & 24 as in the form of a tree structure).

As for claim 19, in further view of claim 15, Peters suggests “wherein the corresponding node and the link are displayed in other structures than the graphic structure or the tree structure in the region displaying the semantic relations information between segments, the corresponding segment and the segments related to the associate meanings being dynamically converted and displayed when a predetermined segment is selected” (Figs. 3-8 as a loop structure other than the tree structure).

As for claim 20, in view of claim 15 above, Ahmand suggests this limitation as the graphical user interface as shown in figure 2B allows the user to control the keyframes either to skip or shift, or to stop, or to select a selected region or to any segment to a category of interest (refer to col. 15/line 43 to col. 16/line 3); therefore, is a node is selected, a shift is made to a corresponding segment.

As for claim 22, in addition to the rejection 112-2<sup>nd</sup> above, Peters shows “wherein the graphic view of semantic relations information selects a plurality of nodes, and the segments corresponding to the more than one selected node are automatically linked and reproduced” (Figs. 22-25).

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***Conclusion***

**10. Any response to this action should be mailed to:**

Commissioner of Patents and Trademarks  
Washington, D.C. 20231

**or faxed to:**

(703) 872-9306, (for Technology Center 2600 only)

11. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kieu-Oanh Bui whose telephone number is (571) 272-7291. The examiner can normally be reached on Monday-Friday from 9:00 AM to 6:30 PM, with alternate Fridays off.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Kieu-Oanh Bui  
Primary Examiner  
Art Unit 2611

KB  
July 28, 2005